

**OPTICALLY ACTIVE COMPOUND, LIQUID CRYSTAL COMPOSITION CONTAINING THE SAME, LIQUID CRYSTAL ELEMENT HAVING THE SAME COMPOSITION AND LIQUID CRYSTAL APPARATUS AND DISPLAYING METHOD USING THE SAME**

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Classification:

- international: C07D263/22; C07D263/24; C07D413/04; C07D 417/04; C09K19/34; G02F1/13; G02F1/141; C07D263/00; C07D413/00; C07D417/00; C09K19/34; G02F1/13; (IPC1-7): C07D263/22; C07D263/24; C07D413/04; C07D417/04; C09K19/34; G02F1/13; G02F1/141

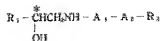
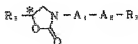
- European:

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Abstract of JP 8151577 (A)

PURPOSE: To obtain a new optically active compound effective in property for providing large spontaneous polarization, high speed responsiveness, reduction of temperature dependance of response rate and high contrast and useful for liquid crystal display elements, liquid crystal-optical shutter, etc. CONSTITUTION: This compound is expressed by formula I [R1 is a straight chain, branched or cyclic 2-20C alkyl (CH2 in the alkyl may be substituted with O, S, CO, etc., without being adjacent to a hetero atom and CH3 in the alkyl may be substituted with CH2 F, etc.); R2 is a straight-chain, branched or cyclic 2-20C alkyl (CH2 in the alkyl may be substituted with O, S, CO, etc., without being adjacent to a hetero atom); A1 is pyrimidin-2,5-diyl, pyridin 2,5-diyl, etc.; A2 is A1, a single bond, 1,4-phenylene, etc.; \* represents optical activity], e.g. (5R)-3-(5-decyloxy-pyrimidin-2-yl)-5-octyl-2-oxazolidinone. The compound of formula I is obtained by reacting a compound of formula II with a compound of formula III and cyclizing the resultant compound of formula IV with diethyl carbonate.



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